the second request from other requests sent from the switch proxy controller to a switch, comprising:

including, in the second request, the first identifier instead of the second identifier; and

including, in the second request, programming instructions in the first request;

providing, by the switch proxy controller, the second request to the switch;

receiving, by the switch proxy controller in response to the second request, a first reply that indicates the second identifier indicated in the second request;

generating, by the switch proxy controller and based on the second identifier indicated in the first reply, a second reply that indicates the first identifier;

selecting, by the switch proxy controller, the first switch fabric to receive the second reply based on the second identifier; and

providing, by the switch proxy controller, the second reply to the first switch fabric.

10. The system of claim **9**, wherein generating, by the switch proxy controller and based on the second identifier indicated in the first reply, a second reply that indicates the first identifier comprises:

determining that information in the first reply corresponds to a rule programmed by a second switch fabric; and

generating the second reply to not include the information in the first reply determined to correspond to the rule programmed by the second switch fabric.

11. The system of claim **10**, wherein determining that information in the first reply corresponds to a rule programmed by a second switch fabric comprises:

determining that the information in the first reply that corresponds to the rule programmed by the second switch fabric indicates a rule with a number that is within a range assigned to rules from the second switch fabric.

12. The system of claim **11**, wherein determining that the information in the first reply that corresponds to the rule programmed by the second switch fabric indicates a rule with a number that is within a number range assigned to rules from the second switch fabric comprises:

receiving rule range information that indicates that rules with numbers within the number range are programmed from the second switch fabric and rules with numbers within another number range are programmed from the first switch fabric.

13. The system of claim **9**, wherein generating, by the switch proxy controller and based on the second identifier indicated in the first reply, a second reply that indicates the first identifier comprises:

identifying the first identifier based on the second identifier;

including, in the second reply, the first identifier instead of the second identifier; and

including, in the second reply, information in the first reply that indicates that the programming instructions were executed by the switch.

14. The system of claim **9**, wherein selecting, by the switch proxy controller, the first switch fabric to receive the second reply based on the second identifier comprises:

identifying a particular mapping based on the second identifier; and

identifying the first switch fabric from the particular mapping.

15. The system of claim **9**, wherein generating, by the switch proxy controller, a second request that indicates a second identifier that identifies the second request from other requests sent from the switch proxy controller to a switch comprises:

generating an entry in a mapping data structure where the mapping that indicates the second identifier corresponds to the first identifier and the first switch fabric,

wherein selecting, by the switch proxy controller, the first switch fabric to receive the second reply based on the second identifier is based on the mapping; and

the operations comprise:

in response to providing, by the switch proxy controller, the second reply to the first switch fabric, removing the mapping from the mapping data structure.

16. The system of claim **9**, wherein the first identifier indicates an order of the first request in requests sent from the first switch fabric to the switch proxy controller across a connection established between the first switch fabric and the switch proxy controller, and the second identifier indicates an order of the second request in requests sent from the switch proxy controller to the switch across a connection established between the switch proxy controller and the switch.

17. A non-transitory computer-readable medium storing instructions executable by one or more computers which, upon such execution, cause the one or more computers to perform operations comprising:

receiving, by a switch proxy controller, a first request from a first switch fabric, where the first request indicates a first identifier that identifies the first request from other requests from the first switch fabric;

generating, by the switch proxy controller, a second request that indicates a second identifier that identifies the second request from other requests sent from the switch proxy controller to a switch;

providing, by the switch proxy controller, the second request to the switch;

receiving, by the switch proxy controller in response to the second request, a first reply that indicates the second identifier indicated in the second request;

generating, by the switch proxy controller and based on the second identifier indicated in the first reply, a second reply that indicates the first identifier;

selecting, by the switch proxy controller, the first switch fabric to receive the second reply based on the second identifier, comprising:

identifying a particular mapping based on the second identifier; and

identifying the first switch fabric from the particular mapping; and

providing, by the switch proxy controller, the second reply to the first switch fabric.

18. The medium of claim **17**, wherein generating, by the switch proxy controller and based on the second identifier indicated in the first reply, a second reply that indicates the first identifier comprises:

determining that information in the first reply corresponds to a rule programmed by a second switch fabric; and

generating the second reply to not include the information in the first reply determined to correspond to the rule programmed by the second switch fabric.

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